

## Abstract

## Circuit array

5           The invention relates to a circuit array for controlling two independent loads (2, 3) operable with rectified AC voltage. A control unit (11) is provided for generating control signals for a semiconductor switch (14, 24), by means of which the loads (2, 3) are controllable. In addition, a phase detection device (6) is provided, by means of which a positive or negative phase of the AC voltage is detectable. The control unit also contains a

10       logic unit (19), which links the control signals (17, 18), by means of which the loads should be separately controllable, with the output signal (19) of the phase detection device (6). As a result, each control signal (17, 18) is active in a different phase of the AC voltage. A device containing the circuit array according to the invention can be executed with an open bridge rectifier which, depending on the phase, controls either one load or

15       the other.

## Figure 2